ANNEXED CLAIMS 1 TO 12 FROM THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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Patent Claims

- 1. Metal-containing, hydrogen-storing material that contains a organometallic compound as a catalyst for hydrating or dehydrating the same.
- Metal-containing material according to claim 1, characterised in that the organometallic compound is liquid.
- 3. Metal-containing material according to one of claims 1 or 2, characterised in that this displays a nanocrystalline structure.
- 4. Metal-containing material according to one of the preceding claims, characterised in that the organometallic compound displays a nanocrystalline structure.
- 5. Metal-containing material according to one of the preceding claims, characterised in that the organometallic compound content lies in the region between 0.005 mol% and 50 mol%.
- 6. Metal-containing substance according to claim 5, characterised in that the organometallic compound content lies in the region between 0.005 mol% and 20 mol%.
- 7. Method for the manufacture of a metal-containing material according to one of the preceding claims, characterised in that the metal-containing material with the organometallic compound is subjected to a mechanical grinding process.

- 8. Method according to claim 7, characterised in that the duration of the grinding process is 1 minute to 200 hours.
- 9. Method according to claim 8, characterised in that the duration of the grinding process lies in the region from 20 hours to 100 hours.
- 10. Method according to one of claims 7 to 9, characterised in that the grinding process is performed in an inert gas atmosphere.
- 11. Method according to claim 10, characterised in that the inert gas is argon.
- 12. Method according to one of claims 7 to 11, characterised in that the grinding process is performed with the addition of an organic solvent.